

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A catalyst ~~which formally comprises~~ comprising zirconium dioxide ( $\text{ZrO}_2$ ), yttrium oxide ( $\text{Y}_2\text{O}_3$ ) and at least one oxide selected from among alkali metal oxides and alkaline earth metal oxides and in which the proportion of zirconium dioxide ( $\text{ZrO}_2$ ) is from 80 to 99 parts by mass, the proportion by mass of yttrium oxide ( $\text{Y}_2\text{O}_3$ ) is from 0.5 to 10 parts by mass and the proportion of alkaline earth metal oxide and/or alkali metal oxide is from 0.1 to 3 parts by mass.

Claim 2 (Original): The catalyst as claimed in claim 1, wherein the proportion of zirconium dioxide ( $\text{ZrO}_2$ ) is from 90 to 98 parts by mass, the proportion by mass of yttrium oxide ( $\text{Y}_2\text{O}_3$ ) is from 1.5 to 8 parts by mass and the proportion of alkaline earth metal oxide and/or alkali metal oxide is from 0.5 to 2 parts by mass.

Claim 3 (Original): The catalyst as claimed in claim 2, wherein the proportion of zirconium dioxide ( $\text{ZrO}_2$ ) is from 93 to 96 parts by mass, the proportion by mass of yttrium oxide ( $\text{Y}_2\text{O}_3$ ) is from 3.5 to 6 parts by mass and the proportion of alkaline earth metal oxide and/or alkali metal oxide is from 0.5 to 1 part by mass.

Claim 4 (Previously Presented): The catalyst as claimed in claim 1, which comprises an alkali metal oxide selected from among potassium oxide and sodium oxide.

Claim 5 (Previously Presented): The catalyst as claimed in claim 1, which is in the form of granules, tablets, cylinders, rings or extrudates.

Claim 6 (Previously Presented): A process for preparing 1-olefins by catalytic dehydration (elimination of water) of alcohols at a temperature from 200 to 450 °C, in which a catalyst as claimed in claim 1 is used as catalyst and at least one secondary 2-alcohol or a mixture thereof is used as alcohol.

Claim 7 (Currently Amended): The process as claimed in claim 6, wherein at least one alcohol having from ~~[[5]]~~ 3 to 27 carbon atoms is used.

Claim 8 (Original): The process as claimed in claim 7, wherein 2-hydroxyoctane is used as alcohol.

Claim 9 (Previously Presented): The process as claimed in claim 6, wherein a mixture comprising further alcohols and/or hydrocarbons and also, if desired, a diluent is used.

Claim 10 (Previously Presented): The process as claimed in claim 6, wherein the dehydration is carried out in the gas phase or the mixed liquid/gas phase.

Claim 11 (Previously Presented): The process as claimed in claim 6, wherein ketones are separated off and hydrogenated from the mixture obtained in the dehydration and the alcohols obtained are recirculated to the dehydration.

Claim 12 (Currently Amended): ~~A composition which comprises at least one 1-olefin and is obtainable by a process as claimed in claim 6 in which~~ The process as claimed in claim 6, wherein the reaction product mixture from the catalytic dehydration is separated into an olefin fraction, an alcohol-containing fraction and one or more fractions comprising by-products, and wherein the composition comprises 1-octene in a proportion of above 90% by mass olefin fraction comprises from 96 to greater than 98% of 1-olefins.

Claims 13-16 (Canceled).

Claim 17 (New): The process as claimed in claim 6, wherein the catalytic dehydration of alcohols is at a temperature from 280 to 380°C.

Claim 18 (New): The process as claimed in claim 7, wherein at least one alcohol having from 5 to 27 carbon atoms is used.

Claim 19 (New): The process as claimed in claim 18, wherein at least one alcohol having from 6 to 16 carbon atoms is used.

Claim 20 (New): The process as claimed in claim 19, wherein at least one alcohol having from 8 to 12 carbon atoms is used.

Claim 21 (New): The process as claimed in claim 6, wherein the dehydration is carried out under a pressure from 0.1 to 25 bar.

Claim 22 (New): The process as claimed in claim 21, wherein the pressure under which the dehydration is carried out is from 0.2 to 10 bar.

Claim 23 (New): The process as claimed in claim 22, wherein the pressure under which the dehydration is carried out is from 1 to 5 bar.

Claim 24 (New): The process as claimed in claim 6, wherein a composition is obtained; said composition comprising greater than 90% by mass of 1-octene.